ComNav







Explorer V1T Thermal Night Vision Camera System

Digitally Rate Stabilized and Higher Quality Picture

- Crisp rate stabilized thermal images: 384 x 288 pixels; 44% greater image quality than conventional 320 x 240 units;
- ComNav Digital Pattern Enhancement (DPE) to provide superior high resolution images in complete darkness, light fog, smog or low light environments
- Easy touch 2x, 4x electronic zoom via joystick control keypad
- Rugged construction meets or exceeds military standards
- 360 degrees continuous pan and -15~90° tilt with auto flip provides seamless view coverage
- Wide angle field of view provides commanding aid in navigation during twilight hours and allows for optimal manoeuvring for docking inside a marina
- Durable, Rugged lightweight Plastic design with carbon effect center body option; weatherproof to IP66
- Built-in Heater
- 5 Display Modes: Black Hot, White Hot, Red Black, Iron Bow, Reverse Iron Bow
- Scene Selection Modes: Day Running, Night Running, Man Overboard, Fog Mode, Marina Mode
- Flexible mounting configurable via dip switch
- 100 user definable Preset Memory Positions
- Up To 40 Preset positions can be used to form Auto Cruise Function
- High precision positioning / Stable PTZ
- Auto Scan, Cruise, Pattern Scan
- Object Tracking Feature optional
- Extremely compact housing
- Compatible with most standard types of Marine Displays
- CE, FCC certified and RoHS compliance
- 2 Year Warranty
- Worldwide Service



Easy Navigation – Various Colors Assists by enhanced visual capability in darkest environments, allows for increased manoeuvring when twilight docking, long range distance awareness in low light conditions.



Man Overboard Rescue Can assist with faster response times in man overboard search and rescue applications.



Security
Helps to identify and track
vessels or objects on perimeter
security, collision avoidance,
vessel and crew protection.

JOYSTICK

CONTROLLER



Situational Awareness
Anti-piracy security tool; allows for comprehensive multi-zone monitoring, long range viewing and greater night vision, iceberg detection, fire detection.

EXPLORER V1T

THERMAL

THERMAL IMAGING PERFORMANCE:

Focal Plane Array Detector: Uncooled Amorphous Silicone (a-Si)

Microbolometer

384 x 288

Field of View: 30° (H)

Lens: 15 mm - wider fixed angle view

Electronic Zoom: 2 x, 4 x

Thermal Sensitivity: <50 mK @ f/1.0 @ 25°C

Spectral Range: 8 – 14 μm **Focus:** Fixed



SCREEN CONTROLLER



OPTIONAL DECODER UNIT

JOYSTICK CONTROLLERS



16cm.

6.3 in

OPTIONAL DISPLAY

SPECIFICATIONS:

Pixel:

Camera Finish: White
Operating Voltage: 9 - 15 VDC
Power Consumption: 15 W Max
Operating Temperature: -25°C to +70°C
Storage Temperature: -40°C to +85°C

Waterproof: Sealed to IP66 standards: marine cables

& corrosion resistant connectors

Wind Resistance: 100 Knots

Encapsulation: Sand & dust proof to Mil-Std-810E

Salt, mist & humidity to IEC60945

Shock Resistance: Mil-PRF-28800F, Class 2 Section

4.5.5.3.1

Vibration Resistance: Mil-PRF-28800F, Class 2 Section

4.5.5.4.1

Compliance: CE, FCC, RoHS

DIMENSIONS:

Camera: 13cm / 5.2 inches in diameter 16cm / 6.3 inches in height

Joystick Keypad:

10cm (4 inches) x 10cm (4 inches) **Weight:** camera: 1.2 kg / 2.65 lbs

13cm/ 5.2 in. 10cm/ 4 in.

10cm

ADDITIONAL FEATURES:

- Multi-function joystick control
- Multiple Thermal Display Modes and Scene Selection Modes
- Control Mode: RS485 Serial / Bespoke
- Proportional Pan/Tilt speed in accordance with degree of zoom
- Random scan function
- Preset positioning tour
- Wide angle thermal imaging view (35 Degrees Horizontal)
- Fixed focus lens
- IP Compatibility Via IP Converter
- Image Flip
- Auto Hot Spot Track
- Total Pixels: 110,592 44% higher than conventional resolution
- Video Connection: 1 x BNC 1vP~P/75 Ohm Composite PAL or NTSC

Represented by:

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